Aqil Tariq

List of Publications by Year
in descending order

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111 papers	2,849 citations	142488 31 h-index	232741 45 g-index
114 all docs	114 docs citations	114 times ranked	2178 citing authors

#	Article	IF	Citations
1	CA-Markov Chain Analysis of Seasonal Land Surface Temperature and Land Use Land Cover Change Using Optical Multi-Temporal Satellite Data of Faisalabad, Pakistan. Remote Sensing, 2020, 12, 3402.	4.1	123
2	Hyperspectral Image Classification Using a Hybrid 3D-2D Convolutional Neural Networks. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 7570-7588.	4.9	123
3	Land surface temperature relation with normalized satellite indices for the estimation of spatio-temporal trends in temperature among various land use land cover classes of an arid Potohar region using Landsat data. Environmental Earth Sciences, 2020, 79, 1.	2.7	94
4	MaxEnt Modelling and Impact of Climate Change on Habitat Suitability Variations of Economically Important Chilgoza Pine (Pinus gerardiana Wall.) in South Asia. Forests, 2022, 13, 715.	2.2	91
5	Spatiotemporal Variation in Land Use Land Cover in the Response to Local Climate Change Using Multispectral Remote Sensing Data. Land, 2022, 11, 595.	3.0	77
6	Mapping of cropland, cropping patterns and crop types by combining optical remote sensing images with decision tree classifier and random forest. Geo-Spatial Information Science, 2023, 26, 302-320.	5.8	76
7	Monitoring of Land Useâ€“Land Cover Change and Potential Causal Factors of Climate Change in Jhelum District, Punjab, Pakistan, through GIS and Multi-Temporal Satellite Data. Land, 2021, 10, 1026.	3.0	75
8	Flash Flood Susceptibility Assessment and Zonation Using an Integrating Analytic Hierarchy Process and Frequency Ratio Model for the Chitral District, Khyber Pakhtunkhwa, Pakistan. Water (Switzerland), 2021, 13, 1650.	2.8	65
9	Adaptive Machine Learning Based Distributed Denial-of-Services Attacks Detection and Mitigation System for SDN-Enabled IoT. Sensors, 2022, 22, 2697.	4.0	64
10	Spatio-temporal analysis of forest fire events in the Margalla Hills, Islamabad, Pakistan using socio-economic and environmental variable data with machine learning methods. Journal of Forestry Research, 2022, 33, 183-194.	3.5	63
11	Monitoring and Modeling the Patterns and Trends of Urban Growth Using Urban Sprawl Matrix and CA-Markov Model: A Case Study of Karachi, Pakistan. Land, 2021, 10, 700.	3.0	62
12	Multiscale Dual-Branch Residual Spectralâ€“Spatial Network With Attention for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 5455-5467.	4.9	55
13	Modeling and Predicting Land Use Land Cover Spatiotemporal Changes: A Case Study in Chalus Watershed, Iran. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 5496-5513.	4.9	54
14	Spatio-temporal assessment of land use land cover based on trajectories and cellular automata Markov modelling and its impact on land surface temperature of Lahore district Pakistan. Environmental Monitoring and Assessment, 2023, 195, .	2.7	54
15	Land change modeler and CA-Markov chain analysis for land use land cover change using satellite data of Peshawar, Pakistan. Physics and Chemistry of the Earth, 2022, 128, 103286.	3.1	53
16	Flash Flood Susceptibility Assessment and Zonation by Integrating Analytic Hierarchy Process and Frequency Ratio Model with Diverse Spatial Data. Water (Switzerland), 2022, 14, 3069.	2.8	52
17	Forest fire monitoring using spatial-statistical and Geo-spatial analysis of factors determining forest fire in Margalla Hills, Islamabad, Pakistan. Geomatics, Natural Hazards and Risk, 2021, 12, 1212-1233.	4.4	50
18	Assessing spatio-temporal mapping and monitoring of climatic variability using SPEI and RF machine learning models. Geocarto International, 2022, 37, 14963-14982.	3.2	50

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19	An Integrated Approach of Machine Learning, Remote Sensing, and GIS Data for the Landslide Susceptibility Mapping. Land, 2022, 11, 1265.	3.0	50
20	Shallow Groundwater Quality Assessment and Its Suitability Analysis for Drinking and Irrigation Purposes. Water (Switzerland), 2021, 13, 3361.	2.8	47
21	Agro Climatic Zoning of Saffron Culture in Miyaneh City by Using WLC Method and Remote Sensing Data. Agriculture (Switzerland), 2022, 12, 118.	3.1	47
22	Integration of Sentinel 1 and Sentinel 2 Satellite Images for Crop Mapping. Applied Sciences (Switzerland), 2021, 11, 10104.	2.6	45
23	Monitoring the Dynamic Changes in Vegetation Cover Using Spatio-Temporal Remote Sensing Data from 1984 to 2020. Atmosphere, 2022, 13, 1609.	2.3	44
24	Monitoring Land Use And Land Cover Changes Using Geospatial Techniques, A Case Study Of Fateh Jang, Attock, Pakistan. Geography, Environment, Sustainability, 2021, 14, 41-52.	1.3	43
25	Characterization of the 2014 Indus River Flood Using Hydraulic Simulations and Satellite Images. Remote Sensing, 2021, 13, 2053.	4.1	41
26	Trends of Rainfall Variability and Drought Monitoring Using Standardized Precipitation Index in a Scarcely Gauged Basin of Northern Pakistan. Water (Switzerland), 2022, 14, 1132.	2.8	40
27	Hyperspectral Image Band Selection Based on CNN Embedded GA (CNNeGA). IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2023, 16, 1927-1950.	4.9	39
28	Evaluation of Vegetation Indices and Phenological Metrics Using Time-Series MODIS Data for Monitoring Vegetation Change in Punjab, Pakistan. Water (Switzerland), 2021, 13, 2550.	2.8	38
29	Agricultural Field Extraction with Deep Learning Algorithm and Satellite Imagery. Journal of the Indian Society of Remote Sensing, 2022, 50, 417-423.	2.5	38
30	Modeling spatio-temporal assessment of land use land cover of Lahore and its impact on land surface temperature using multi-spectral remote sensing data. Environmental Science and Pollution Research, 2023, 30, 23908-23924.	5.3	38
31	Spatial Downscaling of GRACE Data Based on XGBoost Model for Improved Understanding of Hydrological Droughts in the Indus Basin Irrigation System (IBIS). Remote Sensing, 2023, 15, 873.	4.1	37
32	Characterizing Spatiotemporal Variations in the Urban Thermal Environment Related to Land Cover Changes in Karachi, Pakistan, from 2000 to 2020. Remote Sensing, 2022, 14, 2164.	4.1	35
33	Detection of Oil Pollution Using SAR and Optical Remote Sensing Imagery: A Case Study of the Persian Gulf. Journal of the Indian Society of Remote Sensing, 2021, 49, 2377-2385.	2.5	34
34	Classification of Aquifer Vulnerability by Using the DRASTIC Index and Geo-Electrical Techniques. Water (Switzerland), 2021, 13, 2144.	2.8	34
35	Assessing Burned Areas in Wildfires and Prescribed Fires with Spectral Indices and SAR Images in the Margalla Hills of Pakistan. Forests, 2021, 12, 1371.	2.2	34
36	Spatio-temporal variation of seasonal heat islands mapping of Pakistan during 2000â€“2019, using day-time and night-time land surface temperatures MODIS and meteorological stations data. Remote Sensing Applications: Society and Environment, 2022, 27, 100779.	1.5	34

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37	Spatiotemporal Distribution Patterns of Climbers along an Abiotic Gradient in Jhelum District, Punjab, Pakistan. Forests, 2022, 13, 1244.	2.2	34
38	A Synthesis of Spatial Forest Assessment Studies Using Remote Sensing Data and Techniques in Pakistan. Forests, 2021, 12, 1211.	2.2	33
39	A Detailed Ecological Exploration of the Distribution Patterns of Wild Poaceae from the Jhelum District (Punjab), Pakistan. Sustainability, 2022, 14, 3786.	3.3	33
40	Impact of spatio-temporal land surface temperature on cropping pattern and land use and land cover changes using satellite imagery, Hafizabad District, Punjab, Province of Pakistan. Arabian Journal of Geosciences, 2022, 15, .	1.4	33
41	Spatio-temporal variation in surface water in Punjab, Pakistan from 1985 to 2020 using machine-learning methods with time-series remote sensing data and driving factors. Agricultural Water Management, 2023, 280, 108228.	5.7	33
42	Modelling, mapping and monitoring of forest cover changes, using support vector machine, kernel logistic regression and naive bayes tree models with optical remote sensing data. Heliyon, 2023, 9, e13212.	3.3	31
43	Comparison of Three Machine Learning Algorithms Using Google Earth Engine for Land Use Land Cover Classification. Rangeland Ecology and Management, 2024, 92, 129-137.	2.4	31
44	Influence of Edaphic Properties in Determining Forest Community Patterns of the Zabarwan Mountain Range in the Kashmir Himalayas. Forests, 2022, 13, 1214.	2.2	30
45	Quantitative Analysis of Forest Fires in Southeastern Australia Using SAR Data. Remote Sensing, 2021, 13, 2386.	4.1	28
46	Assessment of Spatiotemporal Characteristic of Droughts Using In Situ and Remote Sensing-Based Drought Indices. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2023, 16, 1483-1502.	4.9	27
47	Strawberry Fungal Leaf Scorch Disease Identification in Real-Time Strawberry Field Using Deep Learning Architectures. Plants, 2021, 10, 2643.	3.6	26
48	Integrated geophysical technique for groundwater salinity delineation, an approach to agriculture sustainability for Nankana Sahib Area, Pakistan. Geomatics, Natural Hazards and Risk, 2022, 13, 1043-1064.	4.4	26
49	A series of spatio-temporal analyses and predicting modeling of land use and land cover changes using an integrated Markov chain and cellular automata models. Environmental Science and Pollution Research, 2023, 30, 47470-47484.	5.3	24
50	Analysis of Atmospheric and Ionospheric Variations Due to Impacts of Super Typhoon Mangkhut (1822) in the Northwest Pacific Ocean. Remote Sensing, 2021, 13, 661.	4.1	22
51	Comparative analysis of GIS and RS based models for delineation of groundwater potential zone mapping. Geomatics, Natural Hazards and Risk, 2023, 14, .	4.4	20
52	The Relationship between Neighborhood Characteristics and Homicide in Karachi, Pakistan. Sustainability, 2021, 13, 5520.	3.3	18
53	Rainfall in the Urban Area and Its Impact on Climatology and Population Growth. Atmosphere, 2022, 13, 1610.	2.3	18
54	Impacts of Green Fraction Changes on Surface Temperature and Carbon Emissions: Comparison under Forestation and Urbanization Reshaping Scenarios. Remote Sensing, 2023, 15, 859.	4.1	18

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55	Land subsidence analysis using synthetic aperture radar data. Heliyon, 2023, 9, e14690.	3.3	18
56	Impacts of reduced deposition of atmospheric nitrogen on coastal marine eco-system during substantial shift in human activities in the twenty-first century. Geomatics, Natural Hazards and Risk, 2021, 12, 2023-2047.	4.4	17
57	Integrated Influencing Mechanism of Potential Drivers on Seasonal Variability of LST in Kolkata Municipal Corporation, India. Land, 2022, 11, 1461.	3.0	17
58	An effective geospatial-based flash flood susceptibility assessment with hydrogeomorphic responses on groundwater recharge. Groundwater for Sustainable Development, 2023, 23, 100998.	4.7	17
59	Timely Plastic-Mulched Cropland Extraction Method from Complex Mixed Surfaces in Arid Regions. Remote Sensing, 2022, 14, 4051.	4.1	16
60	Soil erosion assessment by RUSLE model using remote sensing and GIS in an arid zone. International Journal of Digital Earth, 2023, 16, 3105-3124.	4.0	16
61	Mapping sequences and mineral deposits in poorly exposed lithologies of inaccessible regions in Azad Jammu and Kashmir using SVM with ASTER satellite data. Arabian Journal of Geosciences, 2022, 15, 1.	1.4	15
62	Ensuring Earthquake-Proof Development in a Swiftly Developing Region through Neural Network Modeling of Earthquakes Using Nonlinear Spatial Variables. Buildings, 2022, 12, 1713.	3.2	13
63	Mapping and monitoring of spatio-temporal land use and land cover changes and relationship with normalized satellite indices and driving factors. , 0, , 1-17.		13
64	Terrestrial and groundwater storage characteristics and their quantification in the Chitral (Pakistan) and Kabul (Afghanistan) river basins using GRACE/GRACE-FO satellite data. Groundwater for Sustainable Development, 2023, 23, 100990.	4.7	13
65	A Novel Scheme for Merging Active and Passive Satellite Soil Moisture Retrievals Based on Maximizing the Signal to Noise Ratio. Remote Sensing, 2020, 12, 3804.	4.1	12
66	Development of Web-Based GIS Alert System for Informing Environmental Risk of Dengue Infections in Major Cities of Pakistan. Geosfera Indonesia, 2021, 6, 77.	0.7	12
67	Comparative Analysis of Remote Sensing and Geo-Statistical Techniques to Quantify Forest Biomass. Forests, 2023, 14, 379.	2.2	12
68	County-level corn yield prediction using supervised machine learning. European Journal of Remote Sensing, 2023, 56, .	3.8	12
69	Rainwater harvesting for agriculture development using multi-influence factor and fuzzy overlay techniques. Environmental Research, 2023, 238, 117189.	7.7	12
70	Predicting Divorce Prospect Using Ensemble Learning: Support Vector Machine, Linear Model, and Neural Network. Computational Intelligence and Neuroscience, 2022, 2022, 1-15.	1.8	11
71	Developing a Spatiotemporal Model to Forecast Land Surface Temperature: A Way Forward for Better Town Planning. Sustainability, 2022, 14, 11873.	3.3	11
72	Assessment of heavy metal accumulation in dust and leaves of Conocarpus erectus in urban areas: Implications for phytoremediation. Physics and Chemistry of the Earth, 2023, 132, 103481.	3.1	11

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73	Comprehensive genomic analysis of Bacillus paralicheniformis strain BP9, pan-genomic and genetic basis of biocontrol mechanism. Computational and Structural Biotechnology Journal, 2023, 21, 4647-4662.	4.2	10
74	Impact of Climate Change on Land use/Land cover of Chakwal District. International Journal of Economic and Environment Geology, 2020, 11, 65-68.	0.2	9
75	Interaction of climate, topography and soil properties with cropland and cropping pattern using remote sensing data and machine learning methods. Egyptian Journal of Remote Sensing and Space Science, 2023, 26, 415-426.	2.1	9
76	Using Sentinel-2 data to estimate the concentration of heavy metals caused by industrial activities in Ust-Kamenogorsk, Northeastern Kazakhstan. Heliyon, 2023, 9, e21908.	3.3	9
77	Societal knowledge, attitude, and practices towards dengue and associated factors in epidemic-hit areas: Geoinformation assisted empirical evidence. Heliyon, 2024, 10, e23151.	3.3	9
78	GEOSPATIAL APPROACH FOR PETROL PUMPS VALUATION WITH URBAN PREDICTION MODELLING BY CELLULAR AUTOMATA IN CREEDS OF METROPOLITAN EXPANSE. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, X-5/W1-2023, 59-67.	0.0	8
79	ResMorCNN Model: Hyperspectral Images Classification Using Residual-Injection Morphological Features and 3DCNN Layers. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2024, 17, 219-243.	4.9	8
80	GIS Based Universal Soil Erosion Estimation in District Chakwal Punjab, Pakistan. International Journal of Economic and Environment Geology, 2020, 11, 30-36.	0.2	7
81	Forest Cover Change Detection Across Recent Three Decades in Persian Oak Forests Using Convolutional Neural Network. , 2021, , 57-73.		7
82	Traditional ecological knowledge based indicators for monitoring rangeland conditions in Thal and Cholistan Desert, Pakistan. Environmental Challenges, 2023, 13, 100754.	4.4	7
83	Road Extraction From Satellite Images Using Attention-Assisted UNet. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2024, 17, 1126-1136.	4.9	6
84	Investigation of the Relationship Between NDVI Index, Soil Moisture, and Precipitation Data Using Satellite Images. , 2022, , 314-325.		5
85	Exploring hazard quotient, cancer risk, and health risks of toxic metals of the Mehmood Booti and Lakhodair landfill groundwaters, Pakistan. Environmental Nanotechnology, Monitoring and Management, 2023, 20, 100838.	3.1	5
86	Towards sustainable transportation: A case study analysis of climate-responsive strategies in a developing nation. Case Studies in Thermal Engineering, 2024, 55, 104117.	5.8	4
87	Groundwater potential zone mapping using GIS and Remote Sensing based models for sustainable groundwater management. Geocarto International, 2024, 39, .	3.2	4
88	Integrated study of GIS and Remote Sensing to identify potential sites for rainwater harvesting structures. Physics and Chemistry of the Earth, 2024, 134, 103574.	3.1	4
89	Exergy assessment of infrared assisted air impingement dryer using response surface methodology, Back Propagation-Artificial Neural Network, and multi-objective genetic algorithm. Case Studies in Thermal Engineering, 2024, 53, 103936.	5.8	2
90	Spatio-temporal assessment of aerosol and cloud properties using MODIS satellite data and a HYSPLIT model: Implications for climate and agricultural systems. Atmospheric Environment: X, 2024, 21, 100242.	1.5	1

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91	Monitoring Land Use Changes in the Yellow River Delta Using Multi-Temporal Remote Sensing Data and Machine Learning from 2000 to 2020. Remote Sensing, 2024, 16, 1946.	4.1	1
92	Corrigendum to â€œTerrestrial and groundwater storage characteristics and their quantification in the Chitral (Pakistan) and Kabul (Afghanistan) river basins using GRACE/GRACE-FO satellite dataâ€• Groundwater for Sustainable Development, 2023, 23, 101026.	4.7	0
93	Spatiotemporal Analysis of the Karakoram Dynamics: A Case Study of the Ghulkin Glacier, Gilgit Baltistan, Pakistan. , 2024, , 183-202.		0
94	Coupling Remote Sensing Insights With Vegetation Dynamics and to Analyze NO₂ Concentrations: A Google Earth Engine-Driven Investigation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2024, 17, 9858-9875.	4.9	0
95	A comprehensive study on optimizing reservoir potential: Advanced geophysical log analysis of zamzama gas field, southern indus basin, Pakistan. Physics and Chemistry of the Earth, 2024, 135, 103640.	3.1	0
96	Contractional strains and maximum displacement-length ratios of lunar wrinkle ridges in four Maria of basalt. Advances in Space Research, 2024, , .	2.7	0
97	Characterization and Geomorphic Change Detection of Landslides Using UAV Multi-Temporal Imagery in the Himalayas, Pakistan. Land, 2024, 13, 904.	3.0	0
98	Assessing access to safe drinking water in flood-affected areas of District Nowshera, Pakistan: A case study towards achieving sustainable development goal 6.1. Ecohydrology and Hydrobiology, 2024, , .	2.4	0
99	Modelling, quantification and estimation of the soil water erosion using the Revised Universal Soil Loss Equation with Sediment Delivery Ratio and the analytic hierarchy process models. Earth Surface Processes and Landforms, 0, , .	2.4	0
100	Impact assessment of agricultural droughts on water use efficiency in different climatic regions of Punjab Province Pakistan using <scp>MODIS</scp> time series imagery. Hydrological Processes, 2024, 38, .	2.6	0
101	Soil erosion susceptibility mapping of Hangu Region, Kohat Plateau of Pakistan using GIS and RS-based models. Journal of Mountain Science, 2024, 21, 2547-2561.	2.0	0
102	Predicting soil erosion risk using the revised universal soil loss equation (<scp>RUSLE</scp>) model and geoâ€spatial methods. Hydrological Processes, 2024, 38, .	2.6	0
103	Predicting Land Use Land Cover Dynamics and Land Surface Temperature Changes Using CA-Markov-Chain Models in Islamabad, Pakistan (1992-2042). IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2024, , 1-18.	4.9	0
104	Inventory and Analysis of Quarries Using Geographic Information System and Remote Sensing Techniques for Eco-Friendly Quarrying Practices. Ecological Engineering and Environmental Technology, 2024, 25, 368-381.	0.7	0
105	Comparative analysis of machine learning models for predicting PM2.5 concentrations using meteorological and chemical indicators. Journal of Atmospheric and Solar-Terrestrial Physics, 2024, 263, 106338.	1.7	0
106	Spatio-temporal analysis of hydrometeorological variables for terrestrial and groundwater storage assessment. Groundwater for Sustainable Development, 2024, 27, 101333.	4.7	0
107	Assessment of Urban Environmental Quality by Socioeconomic and Environmental Variables Using Openâ€Source Datasets. Transactions in GIS, 0, , .	2.3	0
108	Integrating multisource data and machine learning for supraglacial lake detection: Implications for environmental management and sustainable development goals in high mountainous regions. Journal of Environmental Management, 2024, 370, 122490.	7.9	0

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109	Seasonal Dynamics in Land Surface Temperature in Response to Land Use Land Cover Changes Using Google Earth Engine. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2024, 17, 17983-17997.	4.9	0
110	Analyzing Urban Expansion and Land Use Dynamics in Bagua Grande and Chachapoyas Using Cloud Computing and Predictive Modeling. Earth Systems and Environment, 0, , .	6.3	0
111	Changes monitoring in Hongjiannao Lake from 1987 to 2023 using Google Earth Engine and analysis of climatic and anthropogenic forces. Physics and Chemistry of the Earth, 2024, 136, 103756.	3.1	0